

Dkt. No: SWITJ-P01
Appln. No.: 10/660,137
Reply to Office action of 12/14/2004

Amendments to the Claims

The listing of claims below will replace prior versions, and listing, of claims in the application:

Listing of Claims

5 Claims 1 through 7 (canceled)

Claim 8 (new): A fluid treatment device comprising:

(a) a non-magnetic housing having a linear axis and an inner surface with a channel therein for fluid to flow therethrough; and

10 (b) a first set of magnetic deflectors comprising a first magnet having a outer edge and an inner edge with an elongate surface therebetween wherein said outer edge is attached to said inner surface on a first angle to said axis and said inner edge is curvilinear, and a second magnet having a outer edge and an inner edge with an elongate surface therebetween wherein said outer edge
15 is attached to said inner surface directly opposing said first magnet and on said first angle to said axis and said inner edge is curvilinear;

whereby said first magnet and said second magnet with said first angles on opposing sides resemble an X thereby causing the fluid
20 to flow through said channel non-linearly and non-parallel to, and approximately centrally along, said axis and further causing the

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fluid to flow through said channel non-perpendicularly and non-parallel to said first set of magnetic deflectors.

Claim 9 (new): The device of Claim 8 further comprising a second set of magnetic deflectors adjacent to said first set of magnetic deflectors in the direction of the flow of the fluid, wherein said
5 second set of magnetic deflectors comprise:

(a) a first magnet having a outer edge and an inner edge with an elongate surface therebetween wherein said outer edge is attached to said inner surface on a second angle to said axis and
10 said inner edge is curvilinear; and

(b) a second magnet having a outer edge and an inner edge with an elongate surface therebetween wherein said outer edge is attached to said inner surface, directly opposing said first magnet, and on said second angle to said axis and said inner edge
15 is curvilinear; and wherein said second angle is non-parallel to said first angle.

Claim 10 (new): The device of Claim 9 further comprising at least a third set of magnetic deflectors adjacent to said second set of magnetic deflectors in the direction of the flow of the fluid,
20 wherein said at least third set of magnetic deflectors comprise:

(a) a first magnet having a outer edge and an inner edge with an elongate surface therebetween wherein said outer edge is

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attached to said inner surface on a third angle to said axis and said inner edge is curvilinear; and

(b) a second magnet having a outer edge and an inner edge with an elongate surface therebetween wherein said outer edge is attached to said inner surface, directly opposing said first magnet, and is on said third angle to said axis and wherein said inner edge is curvilinear and further said third angle is non-parallel to said first angle and to second angle.

Claim 11 (new): The device of claim 8 further comprising an outlet set of magnetic deflectors, wherein said outlet set of magnetic deflectors comprise:

(a) a first outlet magnet, upstanding and angled toward said axis; and

(b) a second outlet magnet opposing said first outlet magnet, said second outlet magnet upstanding and angled toward said axis.

Claim 12 (new): The device of claim 11 wherein said first outlet magnet and said second outlet magnet are non-parallel and non-perpendicular to each other.

Claim 13 (new): The device of claim 11 wherein said first outlet magnet and said second outlet magnet are non-parallel and non-perpendicular to the flow of the fluid.

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Claim 14 (new): The device of claim 11 wherein said first outlet magnet and said second outlet magnet are non-parallel and non-perpendicular to said first set of magnetic deflectors.

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